

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A system comprising:
 - a bushing;
 - a button carrier disposed around ~~within~~ the bushing, the button carrier defining a slot;
 - a touch-sensitive input device coupled to the bushing and the button carrier, the bushing configured to support and isolate the touch-sensitive input device and to allow the touch-sensitive input device to move in a rotary degree of freedom;
 - an actuator configured to induce rotation of the touch-sensitive input device; and
 - a pin coupled to the touch-sensitive input device, the pin configured to engage with the slot such that rotation of the touch-sensitive input device is limited by movement of the pin within the slot.
2. (Original) The system of claim 1, wherein the touch-sensitive input device comprises a touchpad.
3. (Original) The system of claim 2, wherein the touchpad comprises a generally circular touchpad.
4. (Cancelled)
5. (Original) The system of claim 1, wherein the touch-sensitive input device further comprises a magnet, and wherein the actuator comprises a magnetic core.
6. (Original) The system of claim 5, wherein the magnetic core comprises an E-core.
7. (Original) The system of claim 1, wherein the actuator comprises:

a motor; and

a drive belt driven by said motor and configured to produce the rotational force on the touch-sensitive input device.

8. (Previously Presented) The system of claim 7, wherein the motor further comprises a pair of end stops to limit the rotation of the motor.

9. (Original) The system of claim 1, wherein the actuator comprises:

a motor; and

an eccentric rotating mass configured to impart a vibration on the touch-sensitive input device.

10. (Original) The system of claim 1, wherein the actuator comprises:

a motor; and

a flexure driven by said motor and configured to produce the rotational force on the touch-sensitive input device.

11. (Original) The system of claim 10, wherein the flexure comprises brass.

12. (Original) The system of claim 1, further comprising a housing, wherein the actuator is grounded to the housing.

13. (Original) The system of claim 1, further comprising a processor configured to receive an output signal from the touch-sensitive input device and generate an input signal operable to cause the actuator to produce the rotational force.

14-19. (Cancelled)

20. (Previously Presented) The system of claim 1, wherein the actuator is configured to self-center based on a reluctance torque.
21. (Previously Presented) The system of claim 1, wherein the touch-sensitive input device defines a hole in its center and wherein the bushing is inserted into the hole from the underside of the touch-sensitive input device.
22. (Previously Presented) The system of claim 1, wherein the slot has a length of approximately 2 millimeters.
23. (Previously Presented) The system of claim 1, wherein the button carrier comprises a button.